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PN - JP60092433 A 19850524
 TI - METHOD FOR RECOVERING NOBLE METAL
 FI - C22B11/04
 PA - DAIDO STEEL CO LTD
 IN - ITOU KIYOTAKA; TOMATSU ICHIROU
 AP - JP19830199154 19831026
 PR - JP19830199154 19831026
 DT - I

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AN - 1985-162270 [27]
 TI - Noble metal recovery e.g. from waste catalyst - includes treating with alkali or pyrosulphate and further treating resulting soln. and residue
 AB - J60092433 Recovery of Pt-gp. metals partic. Ru, is claimed. Raw material of, e.g., waste catalyst for alkali electrolysis including noble metal is melted with oxidising alkali or pyrosulphate, e.g. the former KOH and KNO₃, dissolved in water to form a soln. and insoluble residue. The soln. has HCl added to pH 5-6 and reduced with strong reducing complex, e.g. NaHB₄ to ppte powdered Ru metal. HCl is added to the residue to form a soln. and further insoluble residue. This residue is heated to above 800 deg.C to recover RuO₂ which may be reduced to Ru metal by strongly heating in H₂ or mixed with the raw material to be retreated.
 - ADVANTAGE - Yields of, e.g., up to 97% are obtd.(0/0)
 IW - NOBLE METAL RECOVER WASTE CATALYST TREAT ALKALI PYROSULPHATE TREAT RESULT SOLUTION RESIDUE
 PN - JP60092433 A 19850524 DW198527.003pp
 IC - C22B11/04
 MC - J04-E05 M25-E M25-G20 N08-E
 DC - J04 M25
 PA - (DAIZ) DAIDO TOKUSHUKO KK
 AP - JP19830199153 19831026
 PR - JP19830199154 19831026; JP19830199153 19831026
 OPD - 1983-10-26
 ORD - 1985-05-24

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 TI - METHOD FOR RECOVERING NOBLE METAL
 AB - PURPOSE: To recover a noble metal from a starting material in a high yield by melting the material in an acidic alkali or a pyrosulfate, adding an acid to the melt to dissolve most of the noble metal, separating the resulting soln. from the insoluble residue, and adding a complex hydride to the soln. to carry out reduction.
 - CONSTITUTION: A starting material contg. a noble metal such as Ru, e.g., a waste electrode is melted in KOH+KNO₃ or a pyrosulfate. Hydrochloric acid is added to the melt to adjust the pH to 5-6 and to dissolve most of the noble metal, and the resulting soln. is separated from the insoluble residue. A complex hydride such as NaHB₄ is added to the soln. to carry out reduction. The noble metal in the soln. is recovered by the reduction in a high yield. The remaining noble metal in the insoluble residue is recovered as its oxide by igniting the residue.
 J - C22B11/04
 PA - DAIDO TOKUSHUKO KK
 IN - ITOU KIYOTAKA; others: 01
 ABD - 19850919
 ABV - 009233
 GR - C304
 AP - JP19830199154 19831026